IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method, comprising:

presenting a program guide identifying audiovisual data and designating a set start time and a set stop time for the identified audiovisual data;

receiving <u>at a set-top box</u> audiovisual data from a desired transmission channel <u>beginning</u> at the set start time;

if said audiovisual data is not compressed according to a predetermined format, compressing said received audiovisual data according to said predetermined format;

in response to receiving a record request for recording compressed audiovisual data selected from the program guide prior to a broadcast time the set start time for the selected compressed audiovisual data identified in the program guide of the audiovisual data, storing dynamically, in a mass storage device and for a predefined period of time, the selected compressed audiovisual data received from said desired transmission channel to be included in a title plan generated by a time shift scheduler, wherein said title plan includes information identifying a plurality of content the selected compressed audiovisual data stored dynamically as compressed audiovisual data, wherein at least one of said plurality of content the selected compressed audiovisual data has a variable duration extending beyond the set stop time, wherein storing the selected compressed audiovisual data dynamically comprises:

allocating a <u>first</u> portion of memory in the mass storage device for recording a <u>first</u> portion of the <u>at least one of said plurality of content selected compressed</u> <u>audiovisual data</u> having the variable duration <u>extending beyond the set stop time</u> for subsequent access by users;

utilizing a predetermined amount of said allocated <u>first</u> portion of memory to record [[a]] <u>the first</u> portion of the <u>at least one of said plurality of content selected</u> <u>compressed audiovisual data</u> having a variable duration <u>extending beyond the set stop time</u>;

allocating an additional portion of memory in the mass storage device to record a next portion of the at least one of said plurality of content selected compressed

<u>audiovisual data</u> having the variable duration <u>extending beyond the set stop time</u> in response to utilizing <u>said predetermined amount of</u> said allocated <u>first</u> portion of memory;

utilizing said allocated additional portion of memory to record the next portion of the selected compressed audiovisual data having a variable duration extending beyond the set stop time;

determining when reception of the at least one of said plurality of content selected compressed audiovisual data having the variable duration extending beyond the set stop time has terminated;

repeating said utilizing and said allocating said additional portion of memory until at least one of said plurality of content the selected compressed audiovisual data having the variable duration extending beyond the set stop time is determined to have terminated so that all of said at least one of said plurality of content selected compressed audiovisual data having a variable duration extending beyond the set stop time is stored; and

deallocating any allocated <u>next</u> portion of memory not used to record <u>the next</u> portion of the <u>at least one of said plurality of content selected compressed audiovisual data</u> having a variable duration <u>extending beyond the set stop time</u> after <u>at least one of said plurality of content the selected compressed audiovisual data</u> having the variable duration <u>extending beyond the set stop time</u> is determined to have terminated; and in response to a user request, providing to said user said stored compressed audiovisual data beginning with a portion of said stored compressed audiovisual data having associated with

it a first temporal parameter.

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2. (Currently Amended) In a system adapted to receive broadcast content on a desired transmission channel from each of a plurality of content sources and forward said received broadcast content to a transport network for distribution to subscribers, a method comprising:

in response to a title plan generated by a time shift scheduler, wherein said title plan includes information identifying a plurality of content and designating a set start time and a set stop time for each of the identified plurality of content, wherein at least one of said plurality of content has a variable duration extending beyond the set stop time, in response to receiving a record request for recording content selected from the title plan prior to a broadcast time of the plurality of the start time for the selected content, storing dynamically the plurality of selected content in a server and associating with the plurality of content a temporal parameter, wherein storing dynamically comprises:

allocating a <u>first</u> portion of memory in a mass storage device for recording a <u>first</u> portion of the <u>at least one plurality of selected</u> content having a variable duration <u>extending beyond the set stop time</u> for subsequent access;

utilizing a predetermined amount of said allocated <u>first</u> portion of memory to record [[a]] <u>the first</u> portion of the <u>at least one plurality of selected</u> content having a variable duration <u>extending beyond the set stop time</u>;

allocating an additional portion of memory in the mass storage device to record a next portion of the at least one plurality of selected content having a variable duration extending beyond the set stop time in response to utilizing said predetermined amount of said allocated <u>first</u> portion of memory;

utilizing said allocated additional portion of memory to record the next portion of the selected content having a variable duration extending beyond the set stop time;

determining when reception of the at least one plurality of selected content having the variable duration extending beyond the set stop time has terminated;

repeating said utilizing and said allocating said additional portion of memory until at least one plurality of the selected content having the variable duration extending beyond the set stop time is determined to have terminated so that all of said at least one

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plurality of selected content having a variable duration extending beyond the set stop

time is stored; and

deallocating any allocated <u>next</u> portion of memory not used to record the at least

one plurality of next portion of the selected content having a variable duration extending

beyond the set stop time after at least one plurality of selected content having the variable

duration extending beyond the set stop time is determined to have terminated; and

forwarding the plurality of selected content to said transport network for

distribution in accordance with said temporal parameter to a requesting subscriber; and

in response to a subscriber request for temporally shifted content associated with the

plurality of selected content, forwarding the stored plurality of <u>selected</u> content to said transport

network for distribution to said requesting subscriber.

3. (Previously Presented) The method of claim 2, further comprising:

forwarding to said transport network only the received plurality of content presently

requested by any subscriber.

4. (Previously Presented) The method of claim 2, further comprising:

storing, in said server, the plurality of content presently requested by a threshold number

of subscribers.

5. (Previously Presented) The method of claim 2, wherein said storing of the

desired plurality of content comprises storing a temporally sub-sampled version of the desired

plurality of content to generate a fast-forward track.

6. (Previously Presented) The method of claim 2, wherein said storing of said

desired plurality of content comprises storing a temporally sub-sampled version of the desired

plurality of content in reverse order to generate a reverse track.

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7. (Previously Presented) The method of claim 2, wherein said storing of said desired plurality of content comprises storing a version of the desired plurality of content to generate a play track.

- 8. (Previously Presented) The method of claim 2, further comprising, storing selected plurality of content during a predetermined time interval of a broadcast schedule.
- 9. (Previously Presented) The method of claim 2, wherein said subscriber request for temporally shifted content is initiated by receiving a subscriber title selection from a time shift interactive programming guide screen.
- 10. (Previously Presented) The method of claim 2, wherein said subscriber request for temporally shifted content is initiated by receiving a subscriber title selection from a time shift navigation screen.
- 11. (Previously Presented) The method of claim 2, wherein said subscriber request for temporally shifted content is initiated by receiving a pause or rewind subscriber selection while broadcasting of said desired plurality of content.

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12. (Currently Amended) A method for providing video information in an interactive information distribution system to a plurality of subscribers, comprising:

receiving a plurality of scheduled broadcast programs on a desired transmission channel in real-time;

selecting a portion of said broadcast programs according to a title plan generated by a time shift scheduler, wherein said title plan includes information identifying a plurality of content and designating a set start time and a set stop time for each of the identified plurality of content, wherein at least one of said plurality of content has a variable duration extending beyond the set stop time;

processing said selected broadcast programs into temporally adjusted content, such that the temporally adjusted content is associated with said selected broadcast programs;

in response to receiving a record request for recording content selected from the title plan prior to a broadcast time of at least one program the start time for the selected content having a variable duration, storing dynamically said temporally adjusted selected content of the at least one associated with a program and having a variable duration extending beyond the set stop time for later access by subscribers, wherein storing dynamically said temporally adjusted selected content of the at least one program having a variable duration extending beyond the set stop time for later access by subscribers comprises:

allocating a <u>first</u> portion of memory in a mass storage device for recording a <u>first</u> portion of the <u>temporally adjusted</u> <u>selected</u> content <u>of the at least one program</u> having a variable duration <u>extending beyond the set stop time</u>;

utilizing a predetermined amount of said allocated <u>first</u> portion of memory to record the <u>first</u> portion of the <u>temporally adjusted</u> <u>selected</u> content of the at least one <u>program</u> having a variable duration <u>extending beyond the set stop time</u>;

allocating an additional portion of memory in the mass storage device to record a next portion of the temporally adjusted selected content of the at least one program having a variable duration extending beyond the set stop time in response to utilizing said predetermined amount of said allocated first portion of memory;

utilizing said allocated additional portion of memory to record the next portion of the selected content having a variable duration extending beyond the set stop time;

determining when reception of the at least one program selected content having the variable duration extending beyond the set stop time has terminated;

repeating said utilizing and said allocating said additional portion of memory until at least one program the selected content having the variable duration extending beyond the set stop time is determined to have terminated so that all of the temporally adjusted selected content of the at least one program having a variable duration extending beyond the set stop time is stored; and

deallocating any allocated <u>next</u> portion of memory not used to record the <u>temporally adjusted next portion of the selected</u> content of the at least one program having a variable duration <u>extending beyond the set stop time</u> after at least one program <u>selected content</u> having the variable duration <u>extending beyond the set stop time</u> is determined to have terminated; and

broadcasting said plurality of scheduled broadcast programs <u>selected content</u> to said plurality of subscribers via said desired transmission channel; and

in a first mode of operation, associating a temporal parameter to said temporally adjusted selected content of the at least one program having a variable duration extending beyond the set stop time and streaming, on-demand, said temporally adjusted selected content of the at least one program having the variable duration extending beyond the set stop time and said temporal parameter to those subscribers viewing said selected broadcast programs currently being broadcast content, such that said subscribers may interactively activate such temporally adjusted selected content of the at least one program having a variable duration extending beyond the set stop time contemporaneously with said currently broadcast programs.

13. (Currently Amended) The method of claim 12, further comprising: providing a navigator list to said subscribers having screens presenting said selected broadcast programs having temporally adjusted content for viewing and selection,

wherein in an alternate mode of operation, streaming, on-demand, said temporally adjusted selected content via said navigator list, such that said subscribers may interactively activate such temporally adjusted selected content during viewership of previously scheduled broadcast programs selected from said navigator list.

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14. (Previously Presented) The method of claim 13, wherein said subscribers may interactively switch between said first mode and said alternate mode of operation.

15. (Previously Presented) The method of claim 12, wherein said selecting step comprises:

monitoring subscriber viewership; and

selecting those broadcast programs having a viewership exceeding a predetermined metric.

16. (Currently Amended) The method of claim 12, wherein said selecting step further comprises:

generating title plans for identifying said broadcast programs content to be temporally adjusted; and

defining a temporal availability window for each program.

17. (Previously Presented) The method of claim 16, wherein said processing step comprises:

generating real-time encoded play tracks, fast-forward tracks, rewind tracks, and entry point data (EPD) files associated with each track, said fast-forward tracks and rewind tracks forming said temporally adjusted content.

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18. (Currently Amended) The method of claim 17, wherein said processing step further comprises:

encoding said broadcast programs <u>content</u> identified in said title plan to form said temporally adjusted programs <u>content</u>; and

buffering said encoded broadcast programs content.

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19. (Previously Presented) The method of claim 18, wherein said processing step further comprises:

receiving packetized transport streams from at least one encoder; and inserting title identification codes (TICS) to each packet to enable said transport streams to be identified as said real-time encoded play tracks, fast-forward tracks, and rewind tracks.

- 20. (Previously Presented) The method of claim 19, further comprising: generating said EPD files as said fast-forward and rewind tracks are being created.
- 21. (Previously Presented) The method of claim 20, wherein said EPD files provide transition between streaming of the Play, fast-forward and rewind tracks at appropriate points in response to user commands.
- 22. (Currently Amended) The method of claim 19, wherein said storing step comprises:

receiving said buffered encoded broadcast programs content; storing said real-time play tracks in a plurality of extents; storing said fast-forward tracks in extents in a front to back order; and storing said rewind tracks in extents in a back to front order.

- 23. (Currently Amended) The method of claim 22, where said storing step further comprises storing selected broadcast programs content from a particular channel for a fixed window of time.
- 24. (Currently Amended) The method of claim 22, where said storing step further comprises storing selected broadcast programs content from a plurality of channels.

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25. (Currently Amended) The method of claim 12, wherein said first mode of operation further comprises providing an interactive program guide (IPG) to said subscribers having screens presenting said selected broadcast programs content having temporally adjusted content for viewing and selection.

26. (Canceled)

27. (Previously Presented) The method of claim 12, wherein said first mode of operation further comprises receiving a temporal control message from a subscriber selected from the group of temporal control messages consisting of pause, rewind, and fast-forward.

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28. (Currently Amended) A system for providing video information in an interactive information distribution system to a plurality of subscribers, comprising:

means for receiving a plurality of scheduled broadcast programs on a desired transmission channel in real-time;

means for selecting a portion of said broadcast programs according to a title plan generated by a time shift scheduler, wherein said title plan includes information identifying a plurality of content and designating a set start time and a set stop time for each of the identified plurality of content, wherein at least one of said broadcast programs has a variable duration extending beyond the set stop time;

means for processing said selected broadcast programs into temporally adjusted content, such that the temporally adjusted content is associated with said selected broadcast programs;

in response to receiving a record request for recording content selected from the title plan prior to a broadcast time of at least one program the start time for the selected content having a variable duration extending beyond the set stop time,

means for storing dynamically, in response to receiving a record request prior to a broadcast time of at least one program having a variable duration the request for recording content selected from the title plan prior to the start time for the selected content, said temporally adjusted selected content of the at least one program having a variable duration extending beyond the set stop time for later access by subscribers, wherein storing dynamically comprises:

allocating a <u>first</u> portion of memory in a mass storage device for recording a <u>first</u> portion of the <u>temporally adjusted selected</u> content <u>of the at least one program</u> having a variable duration <u>extending beyond the set stop time</u>;

utilizing a predetermined amount of said allocated <u>first</u> portion of memory to record the <u>first</u> portion of the <u>temporally adjusted selected</u> content of the at least one <u>program</u> having a variable duration <u>extending beyond the set stop time</u>;

allocating an additional portion of memory in the mass storage device to record a next portion of the temporally adjusted selected content of the at least one program having a variable duration extending beyond the set stop time in response to utilizing said predetermined amount of said allocated first portion of memory;

utilizing said allocated additional portion of memory to record the next portion of the selected content having a variable duration extending beyond the set stop time;

determining when reception of the at least one program selected content having the variable duration extending beyond the set stop time has terminated;

repeating said utilizing and said allocating said additional portion of memory until at least one program the selected content having the variable duration extending beyond the set stop time is determined to have terminated so that all of the temporally adjusted selected content of the at least one program having a variable duration extending beyond the set stop time is stored; and

deallocating any allocated <u>next</u> portion of memory not used to record the <u>temporally adjusted next portion of the selected</u> content of the at least one program having a variable duration <u>extending beyond the set stop time</u> after at least one program <u>selected content</u> having the variable duration <u>extending beyond the set stop time</u> is determined to have terminated; and

means for broadcasting said plurality of scheduled broadcast programs <u>selected content</u> to said plurality of subscribers via said desired transmission channel; and

in a first mode of operation, means for associating a temporal parameter to said temporally adjusted selected content of the at least one program having a variable duration extending beyond the set stop time and streaming, on-demand, said temporally adjusted selected content of the at least one program having a variable duration extending beyond the set stop time and said temporal parameter to those subscribers viewing said selected broadcast programs eurrently being broadcast content, such that said subscribers may interactively activate such temporally adjusted selected content of the at least one program having a variable duration extending beyond the set stop time contemporaneously with said currently broadcast programs.